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1/17 CHOI, *et al.* END920020007US1 AJS

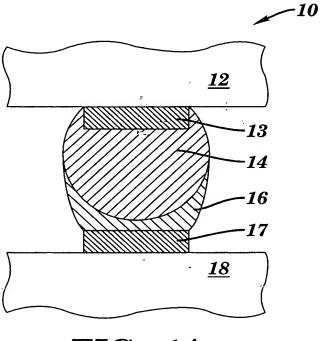


FIG. 1A

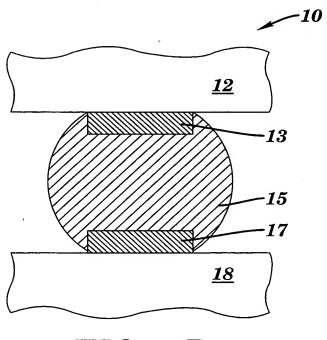


FIG. 1B

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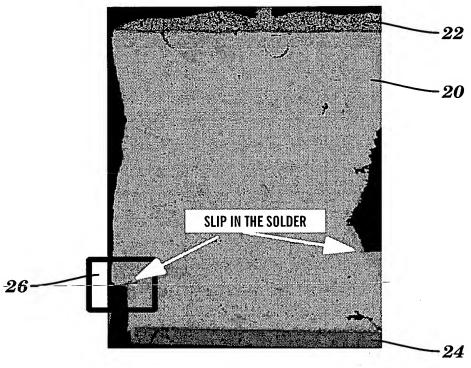


FIG. 2A

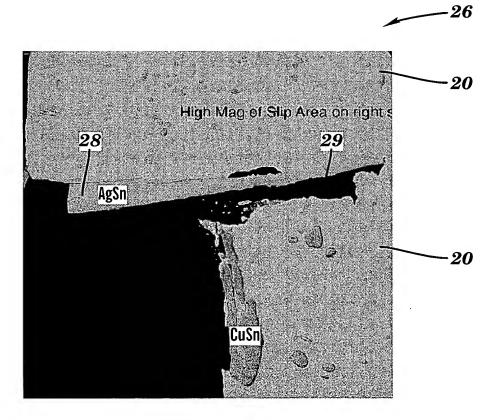
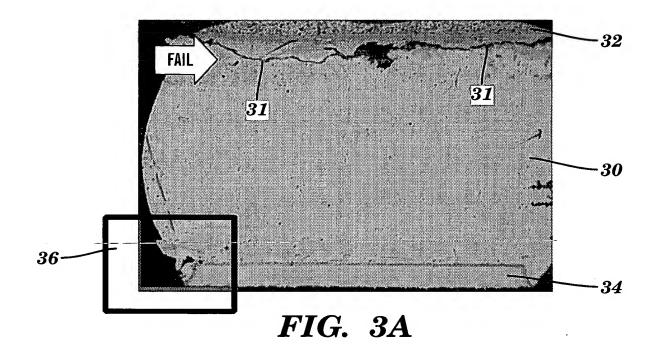


FIG. 2B



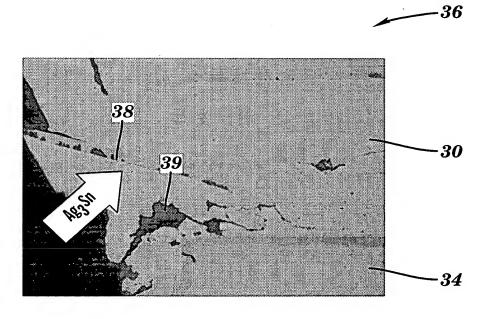


FIG. 3B

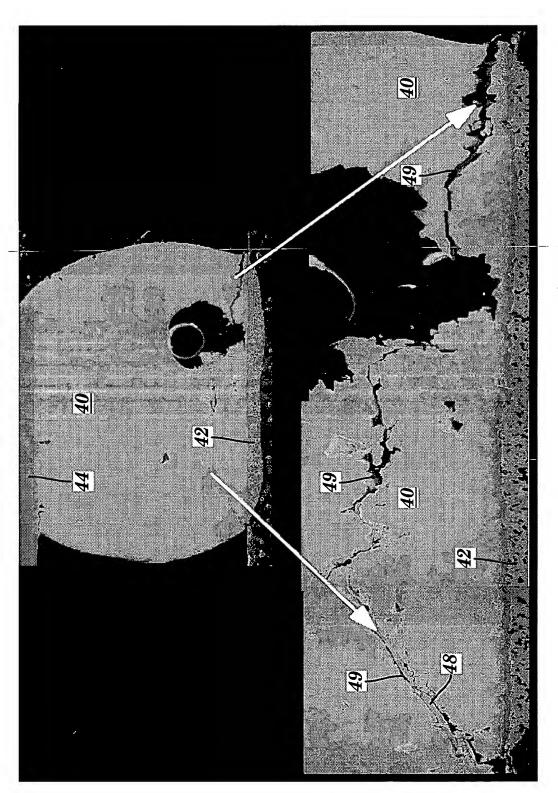
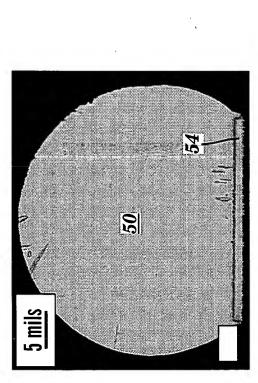


FIG. 3C

FIG. 4B

99-

5 mils



<u>20</u>

54

FIG. 4A

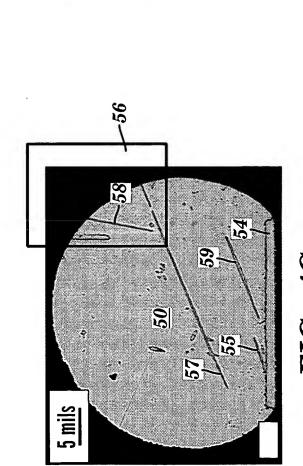


FIG. 4D

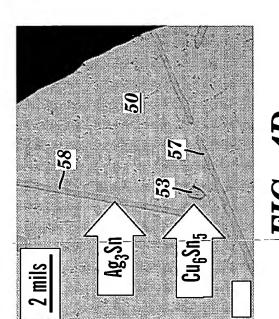


FIG. 4C

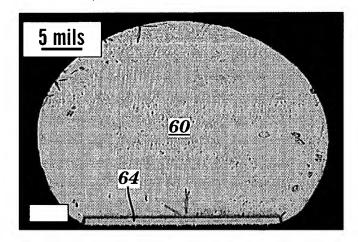


FIG. 5A

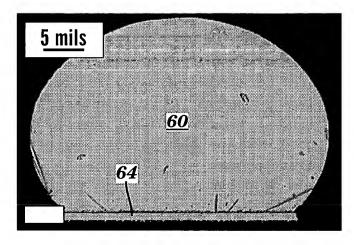


FIG. 5B

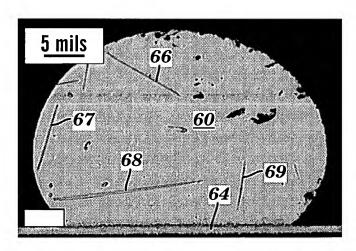


FIG. 5C

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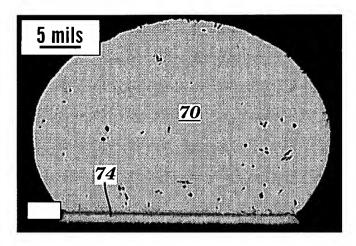


FIG. 6A

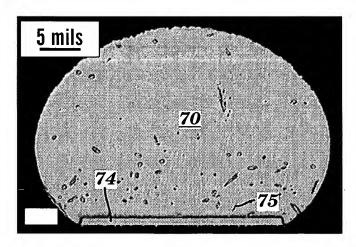


FIG. 6B

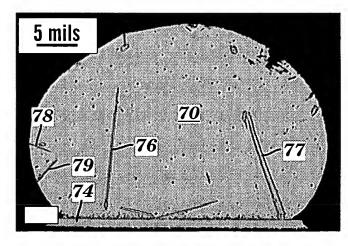


FIG. 6C

#### 8/17 END920020007US1

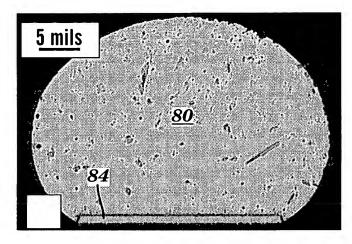


FIG. 7A

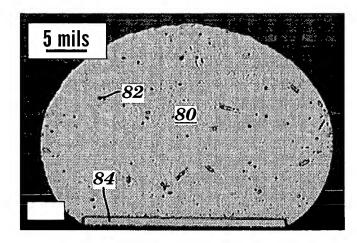


FIG. 7B

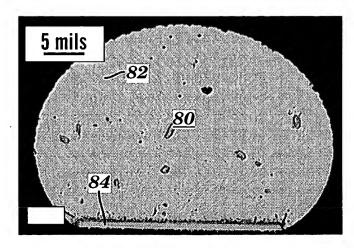


FIG. 7C

#### 9/17 END920020007US1

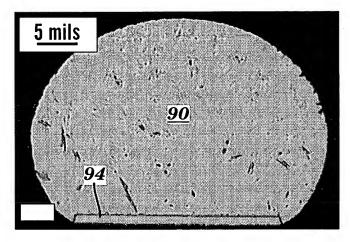


FIG. 8A

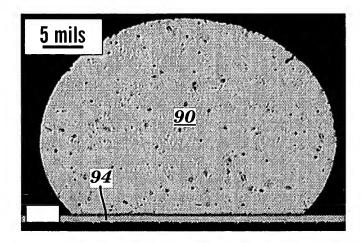


FIG. 8B

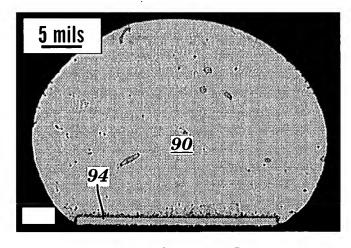


FIG. 8C

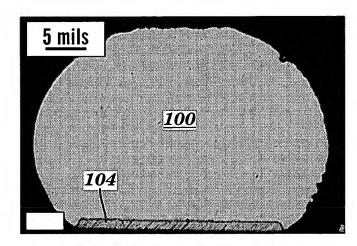


FIG. 9A

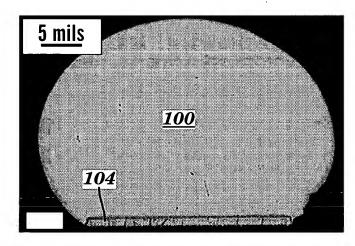


FIG. 9B

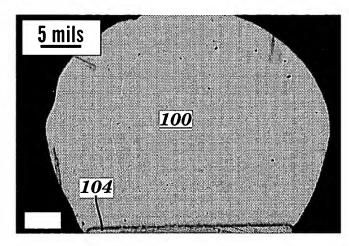


FIG. 9C



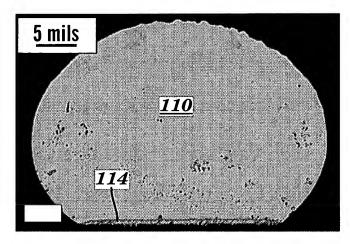


FIG. 10A

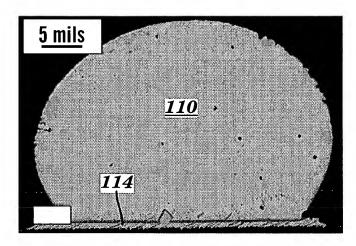


FIG. 10B

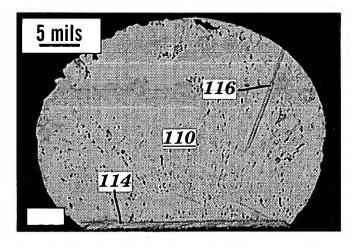


FIG. 10C

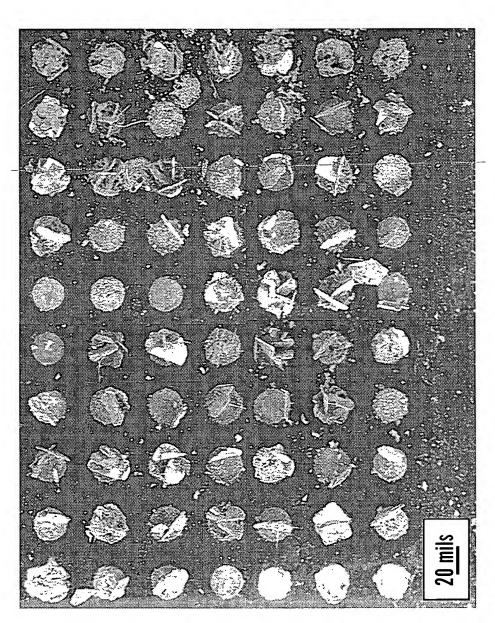
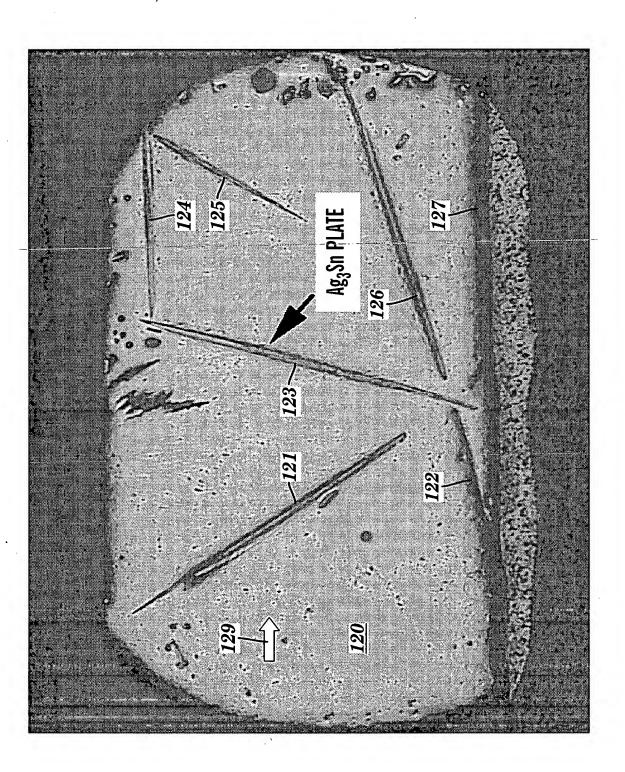


FIG. 11



# FIG. 12

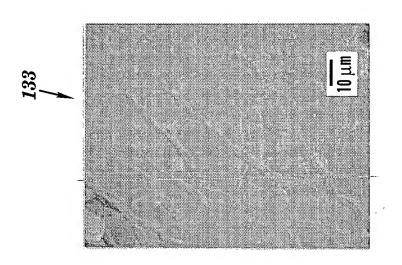


FIG. 13B

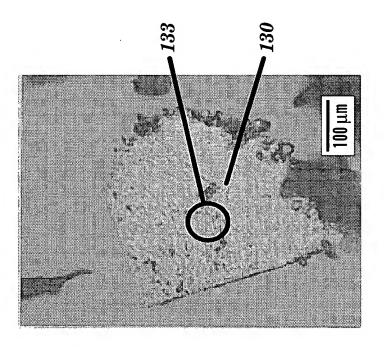


FIG. 13A

	PASTY RANGE ( $\Delta  extsf{I} =  extsf{I}_{ extsf{Liquidus}}  extsf{-}  extsf{Solidus})$	TLIQUIDUS - TSOLIDUS)
SAC ALLOY	0.7 Cu	0.9 Cu
Sn2.1Ag x Cu	3.5	15.7
Sn2.3Ag x Cu	3.3	17.3
Sn2.5Ag x Cu	2.6	17.3
Sn2.7Ag x Cu	2	17.3
Sn2.9Ag x Cu	1.6	17.3

## FIG. 14

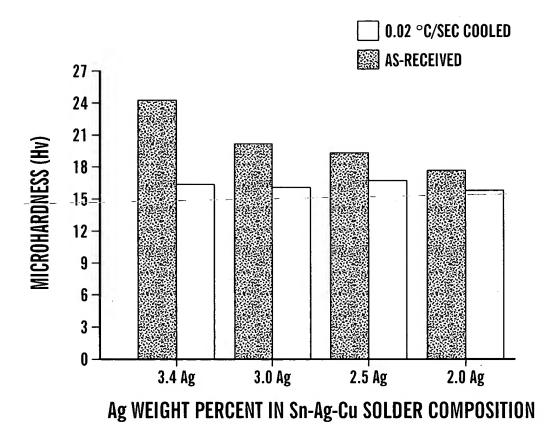


FIG. 15

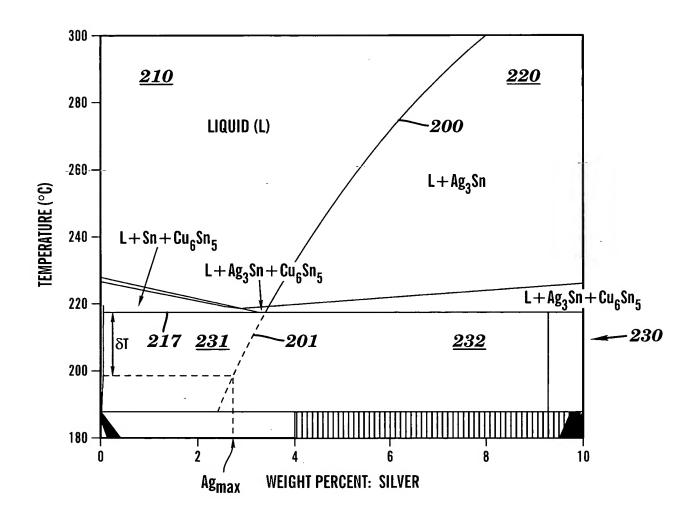


FIG. 16